A. I. A. File Number 20B11

DESIGN

Gray, Des. Div.
5/2/49 - Gift.

TRUSCON HOLLOW PARTITION STUDS

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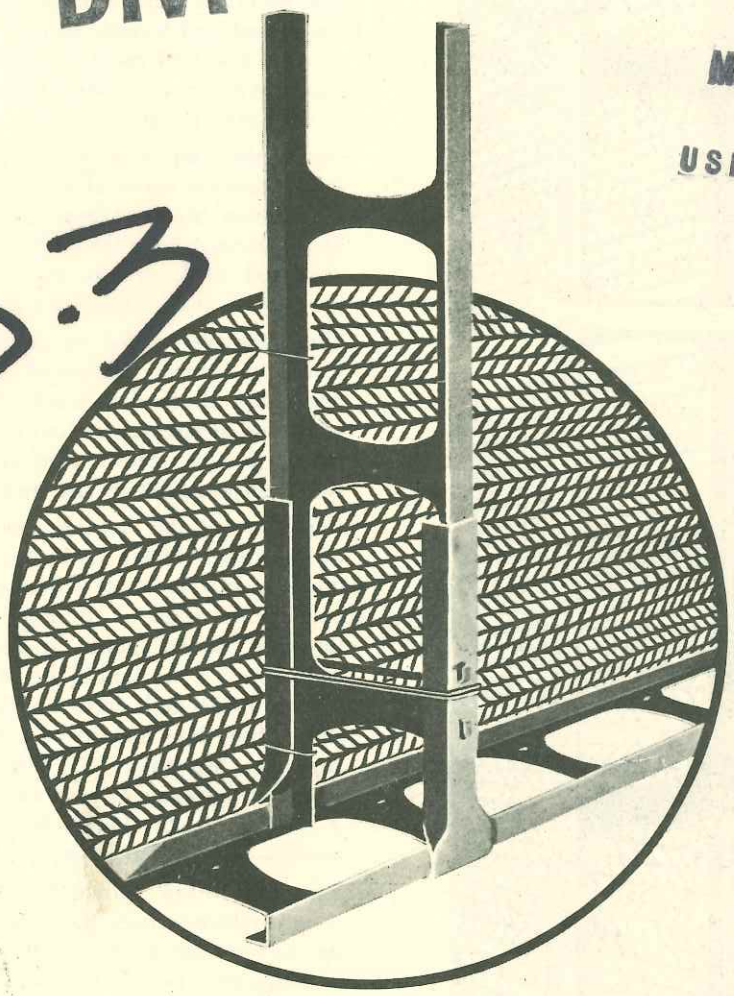

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Manufactured by

TRUSCON STEEL COMPANY, Youngstown, Ohio

Sales Offices and Warehouses in Principal Cities

Subsidiary of Republic Steel Corporation

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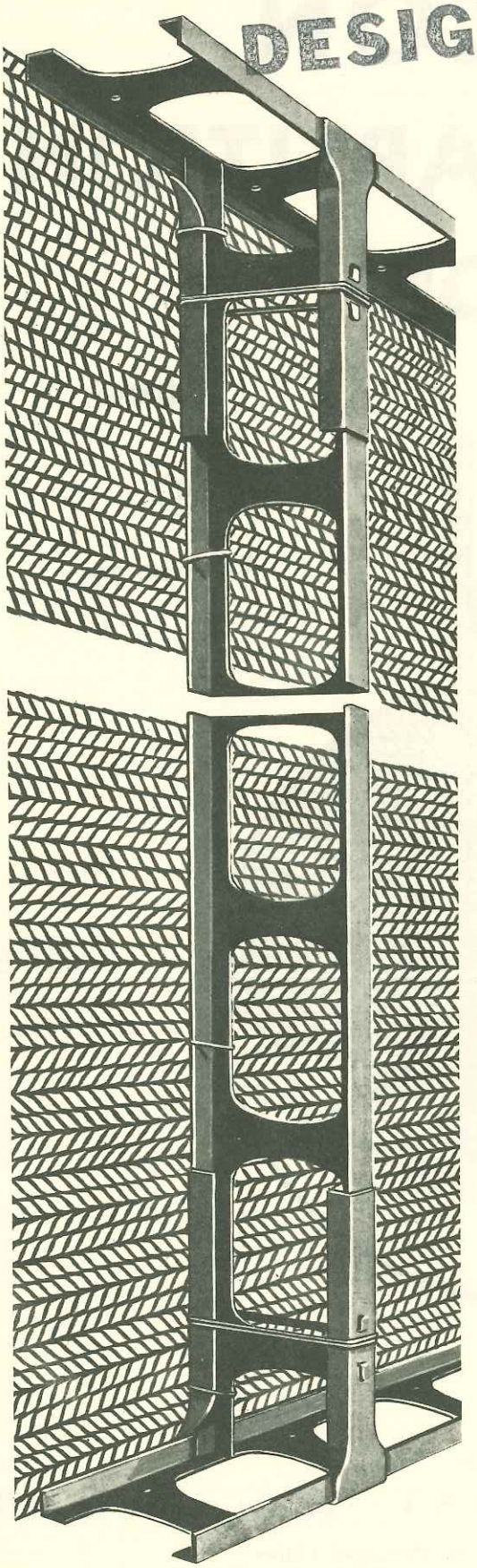


TRUSCON HOLLOW PARTITION STUDS

Truscon Hollow Partition Studs installed on any job assure permanence, rigidity and economy. Because of their unique design, they provide rigid construction. When metal lath is attached to both sides of these studs an ideal base for plaster is obtained. There is no necessity for cutting expensive chases for electrical conduits or pipes as the design of these studs provides maximum room for their passage without sacrificing the strength of the studs.

Truscon Hollow Partition Studs are fire-safe, provide excellent heat insulation, sound resistance and are rodent and termite proof. They will not swell or warp and will resist impact, vibration or plaster cracking much more effectively than partitions built of masonry or gypsum block.

Due to the simplification and light weight of units. labor costs are materially reduced. The adaptability of Truscon Studs permits uninterrupted operation of all trades. After the studs are set, plumbing and electrical work can be started immediately. The partition is then lathed and plastered.

The studs are erected by inserting in runner track which is securely anchored to floor and ceiling. Shoes are attached to track and around flange of studs and securely wired with 18 gauge galvanized annealed wire. Shoes used at top and bottom of studs are identical in size and shape.

For best results, lathing should start at the top of partition. Metal Lath should be applied with the long dimension of sheets across the studs, and secured by means of 18 gauge galvanized annealed tie wire. Sheets should be tied to studs at 6″ intervals and a tie should be placed where sides of sheets lap at studs, also on side half-way between studs. Side laps should be not less than ½″—end laps not less than 1″. Where partition adjoins abutting masonry or concrete walls or ceilings, a 4″ corner lap or shoe is bent and carried over to avoid a joint at the junction.

Truscon Hollow Partition Studs when plastered, weigh sixteen to twenty pounds per square foot, depending on the thickness of plaster grounds and consequently permit economical structural design without decreasing strength.

SIZES AND WEIGHTS

3¼″	Studs and Track	663 lbs. per M Lin. Ft.
4″	Studs and Track	682 lbs. per M Lin. Ft.
6″	Studs and Track	1032 lbs. per M Lin. Ft.

Shoes for 3¼″ and 4″ Studs 69 lbs. per M Pcs.
Shoes for 6″ Studs 80 lbs. per M Pcs.

Specifications for Truscon Hollow Partition Studs

Partition shall be of 16 gauge steel, dip painted Truscon Hollow Studs. Track for floor and ceiling shall be 16 gauge steel, dip painted. 5″ Shoes for studs shall be 22 gauge steel, painted.

Track shall be securely anchored at floor and ceiling by either concrete stub nails or 18 gauge galvanized annealed wire. Studs shall be attached to floor and ceiling track using shoes wired to the studs, wire shall be double strand of 18 gauge galvanized.

Stud spacing shall be as follows:

16″ spacing	—3.4 lbs. Small Mesh Diamond Lath or 2.75 lbs. Doublemesh Herringbone Lath.
24″ spacing	—3.4 lbs. Doublemesh Herringbone Lath

Grounds—Wood nailing blocks shall be secured to the studs for attachment of wood grounds. Wood grounds of proper thickness shall be set true to line.

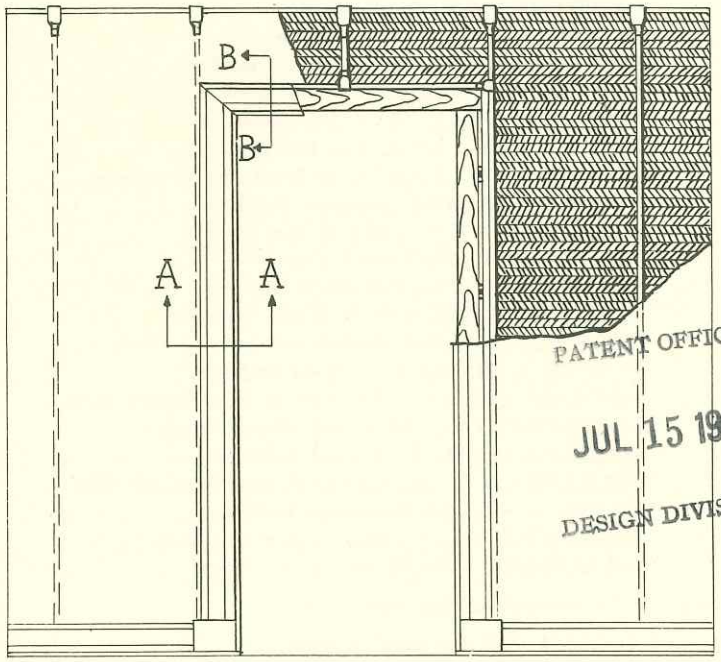
Metal Base Screed, Picture Mould and Cornerbeads shall be wired to the partition after lath is erected.

Bucks—Wood bucks shall be full dimension equal to the partition thickness and made from straight grained lumber, substantially free from knots. Bucks shall be of out to out dimension, which will permit casing to cover joint between buck by at least one inch.

Metal Bucks shall be securely anchored at jamb and head to the studs.

Electric Conduit Switch Boxes—The electrical contractor shall provide standard electrical outlets which shall be securely attached to the studs and set to line.

Details of Construction Around Wood Door Frames



ELEVATION OF WOOD DOOR FRAME

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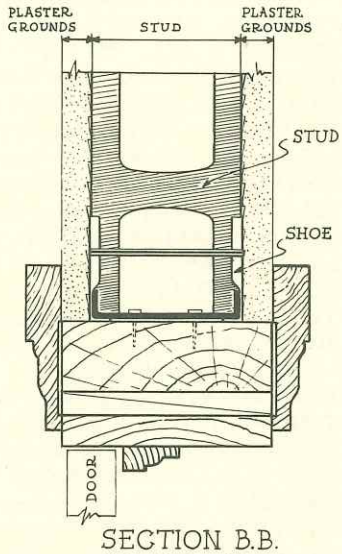
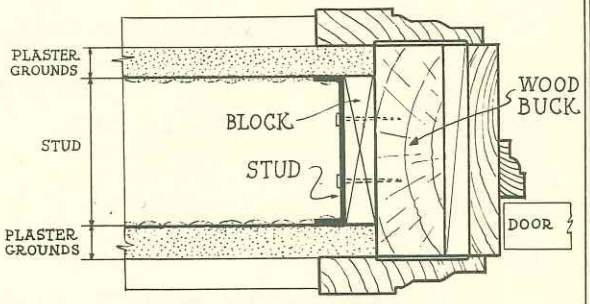


SECTION B.B.
THROUGH HEAD



SECTION A.A.
THROUGH JAMB

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TRUSCON STEEL BUILDING PRODUCTS

STEEL WINDOWS:
- Residential Double Hung
- Medium Double Hung
- Heavy Double Hung
- Residence Casements
- Housing Casements
- Intermediate Casements
- Intermediate Projected
- Intermediate Combination
- Donovan Awning Type
- Maxim-Air Louver Type
- Architectural Projected
- Commercial Projected
- Pivoted Type
- Utility and Security
- Detention Type
- Top Hung Continuous
- Mechanical Operators
- Basement Windows
- Formed Steel Lintels
- Coal Chute Doors
- Screens and Storm Sash

STEEL DOORS:
- Swing and Slide
- Bifold
- Canopy
- Accordion
- Two Section Turnover
- Vertical Lift
- Vertical Lift Canopy
- Horizontal Slide

METAL LATHS:
- Diamond
- Herringbone Doublemesh
- Ribplex
- Self-Sentering
- Stucco Mesh
- Cornerite and Stripe-Ite
- Cold Rolled Channels
- Corner Beads
- Base Screeds
- Casings
- Tie Wire

STEELDECK ROOFS:
- Ferrohord

STEEL JOISTS:
- Open Truss Joists
- Plate Girder Joists
- Nailer Joists
- Clerespan Joists

REINFORCING STEEL
- Rib Bars
- Welded Steel Fabric
- Column Hooping
- Grid Floor Pans
- Pressed Steel Inserts
- Bank Vault Reinforcing

LIGHT STEEL FRAME CONSTRUCTION

FERROGLAS CONSTRUCTION

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BOSTON 27 (South), MASS., 307 Dorchester Avenue
BUFFALO 3, N. Y., 1426 Rand Building
CHATTANOOGA 1, TENN., 19th & Grove Streets
CHICAGO 6, ILL., 201 No. Wells Street
CINCINNATI 2, OHIO, 330 Dixie Terminal Building
CLEVELAND 15, OHIO, 935 Hanna Building Annex
COLUMBUS 15, OHIO, 818-821 Atlas Building
DALLAS 1, TEXAS, 314 Construction Building
DAYTON 2, OHIO, 44 So. Ludlow Street
DENVER 2, COLO., 228 Patterson Building
DETROIT 26, MICH., 615 Wayne Street
ERIE, PA., 215 Hayes Building
GREENSBORO, N. C., 935 Jefferson Standard Building
HARRISBURG, PA., 410 N. Second Street
HOUSTON 11, TEXAS, 501 N. Greenwood Street
INDIANAPOLIS 3, IND., 398 Division Street
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KANSAS CITY 6, MO., 1001 Fluor Building
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MEMPHIS 5, TENN., 269 Walnut Street
MINNEAPOLIS 2, MINN., 246 Baker Building
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OKLAHOMA CITY 2, OKLA., 24 Northwest First Street
OMAHA 2, NEB., 806-07 Insurance Building
PHILADELPHIA 3, PA., 1616 Walnut Street
PHOENIX, ARIZ., 303 Luhrs Building
PITTSBURGH 22, PA., 2541 Oliver Building
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POTTSVILLE, PA., 1541 Howard Avenue
ST. LOUIS 3, MO., 8th Floor, Shell Building
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SAN FRANCISCO 5, CALIF., 604 Mission Street
SEATTLE 4, WASH., 757 Central Building
SYRACUSE 2, N. Y., 303 Syracuse-Kemper Insurance Bldg.
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WASHINGTON 5, D. C., 700 Investment Building
YOUNGSTOWN 1, OHIO, 1315 Albert Street

EXPORT DEPT.: Chrysler Building, 405 Lexington Ave., New York 17, N. Y.

PRESSED STEEL DIVISION: 6100 Truscon Avenue, Cleveland 4, Ohio

Factories: Youngstown, Ohio—Cleveland, Ohio—Gadsden, Alabama—Walkerville, Ont., Canada

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